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 PR - JP19970282500 19970930  
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 TI - MICROPOROUS HYDROPHILIZED POLYOLEFIN MEMBRANE AND ITS PRODUCTION  
 IN - KONO KOICHI; TAKITA KOTARO; FUNAOKA HIDEHIKO; KAIMAI NORIMITSU  
 PA - TONEN KAGAKU KK  
 IC - C08J9/28 ; C08J9/36

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TI - Hydrophilic polyolefin fine porous film - includes ultra-high molecular weight polyolefin, and acryl monomer graft polymerised on the pore surfaces of the polyolefin fine porous film  
 PR - JP19970282500 19970930  
 PN - JP11106552 A 19990420 DW 199926 C08J9/28 007pp  
 PA - (TOFU ) TONEN KAGAKU KK  
 IC - C08J9/28 ; C08J9/36  
 AB - J11106552 A fine porous film is made of a polyolefin composition including more than 1 wt.% of polyolefin of ultrahigh molecular wt. of more than 5 x 10<sup>5</sup> of wt. average molecular wt, and 5 - 40 wt. % of an acryl monomer is graft polymerised on the pore surfaces of the polyolefin fine porous film of more than 50 % of porosity and < 60 Gurley sec. of air permeability, and the film surface.  
 - USE - Effectively used for a separator of a battery, a diaphragm of an electrolytic condensor, a separation membrane, a water treatment membrane, the water vapour permeable water proof clothing, and a reverse osmosis filtering membrane..  
 - ADVANTAGE - The hydrophilic polyolefin fine porous film of high strength and high permeability can be provided.  
 - (Dwg. 0/0)  
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 TI - MICROPOROUS HYDROPHILIZED POLYOLEFIN MEMBRANE AND ITS PRODUCTION  
 AB - PROBLEM TO BE SOLVED: To obtain a high-strength high-permeability hydrophilic microporous membrane by grafting a specified amount of an acrylic monomer onto the surface and pore surfaces of a microporous membrane made from a polyolefin composition containing an at least specified amount of an ultrahigh-molecular- weight polyolefin and having a specified porosity and a specified air permeability.  
 - SOLUTION: 5-40 wt.% acrylic monomer is grafted onto the pore surfaces and surface of a microporous membrane made from a polyolefin composition containing at least 1 wt.% ultrahigh-molecular-weight polyolefin having a weight- average molecular weight of 5 times 10<sup>5</sup> or above and having a porosity of 50% or above and an air permeability of 60 Gurley sec or below. The microporous polyolefin membrane is made by extruding a solvent solution of a polyolefin composition having a specified composition to form a film, removing the solvent from the film and heat-setting it. The acrylic monomer is grafted onto its surface after the surface is treated by irradiation with an ionizing radiation. The acrylic monomer is exemplified by a (meth)acrylic acid (ester) desirably in combination with a crosslinking agent, Mohr's salt and water/alcohol.